FIG. 1 PRIOR ART

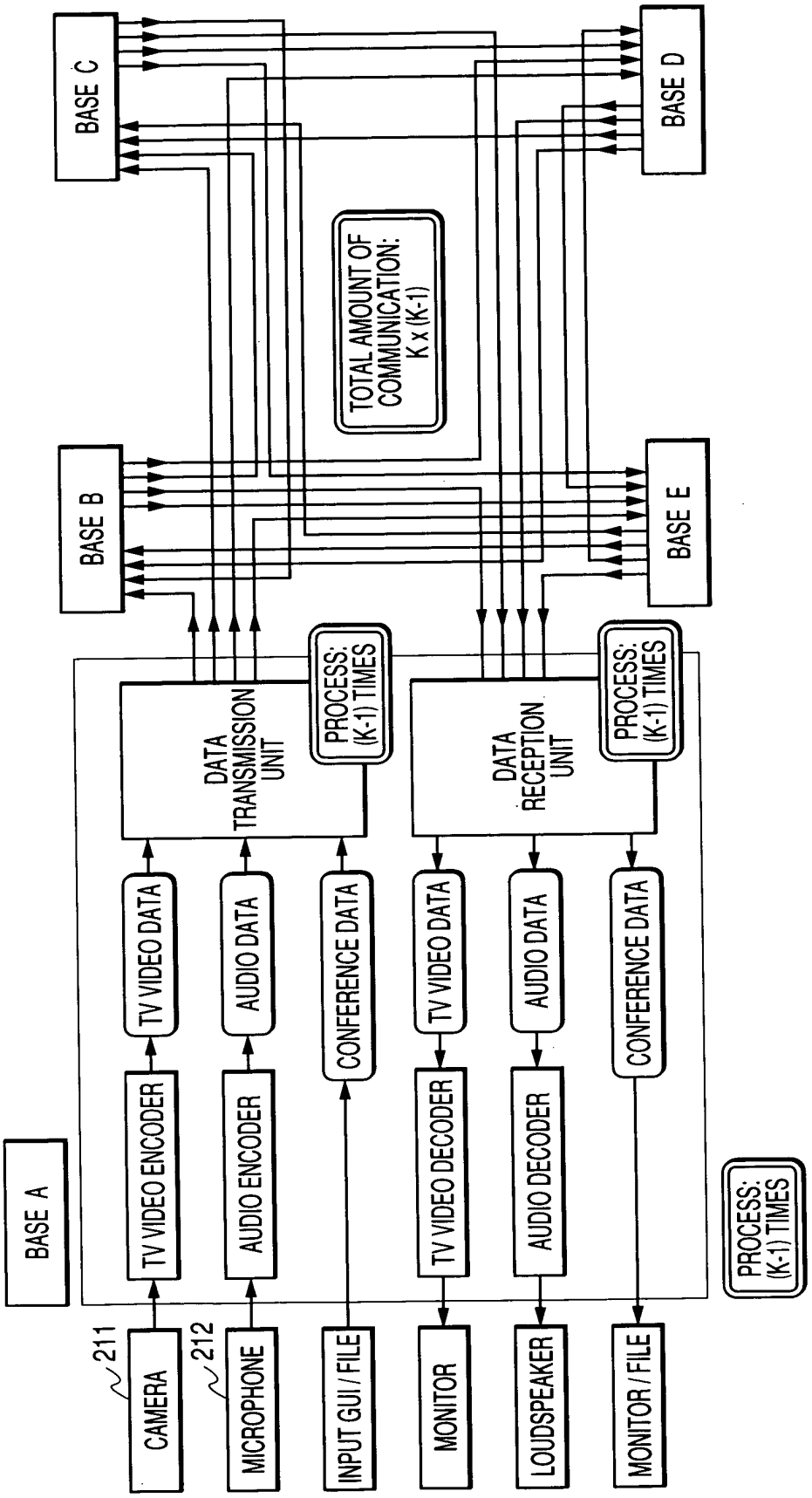


FIG. 2

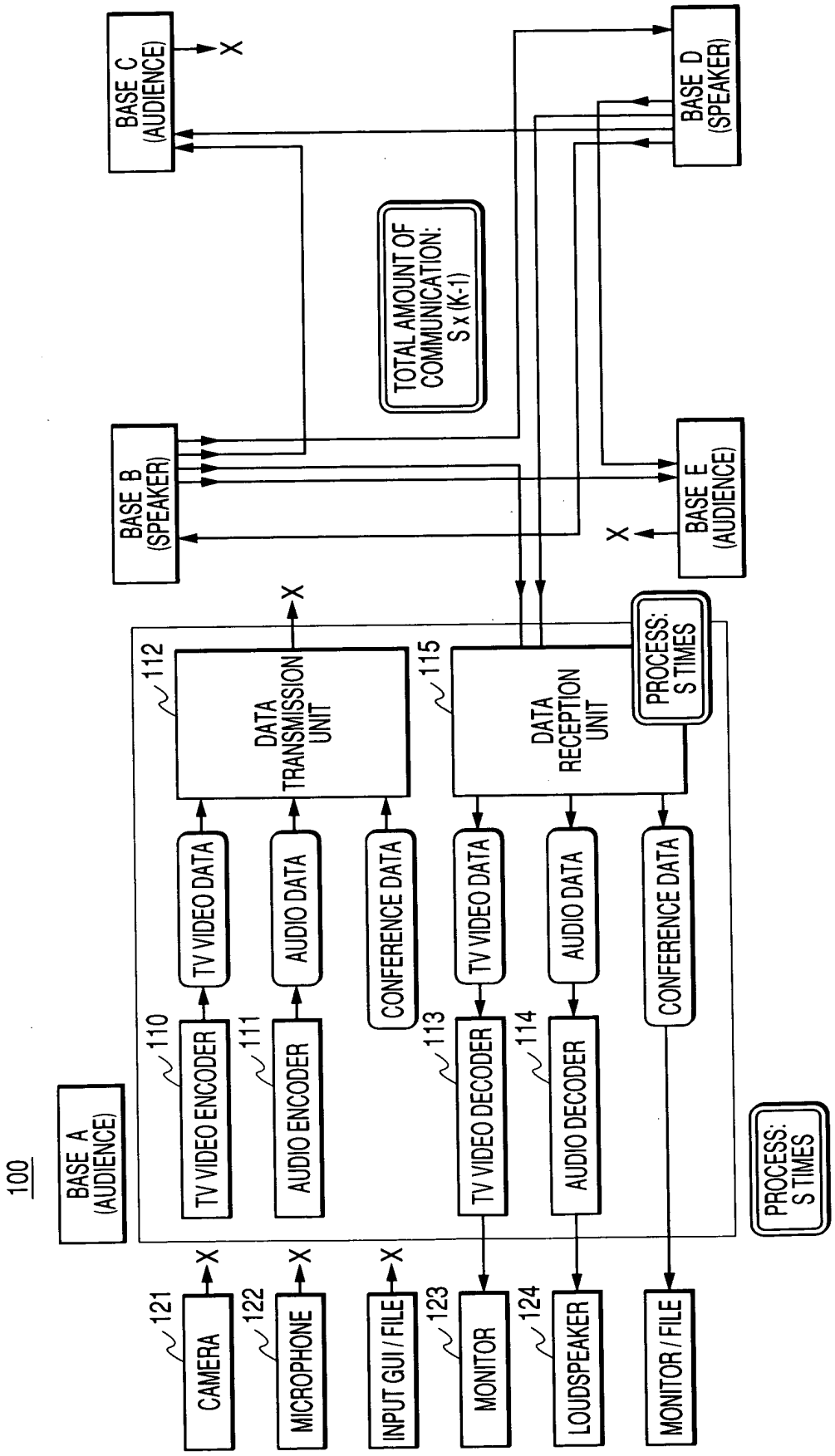

100
BASE A (AUDIENCE)
BASE B (SPEAKER)
BASE C (AUDIENCE)
BASE D (SPEAKER)
BASE E (AUDIENCE)
TOTAL AMOUNT OF COMMUNICATION: S x (K-1)
DATA TRANSMISSION UNIT
112
DATA RECEPTION UNIT
115
PROCESS: S TIMES
PROCESS: S TIMES
TV VIDEO ENCODER
110
AUDIO ENCODER
111
CONFERENCE DATA
TV VIDEO DECODER
113
AUDIO DECODER
114
CONFERENCE DATA
TV VIDEO DATA
AUDIO DATA
TV VIDEO DATA
AUDIO DATA
CAMERA
121
MICROPHONE
122
INPUT GUI / FILE
MONITOR
123
LOUDSPEAKER
124
MONITOR / FILE
X

FIG. 3

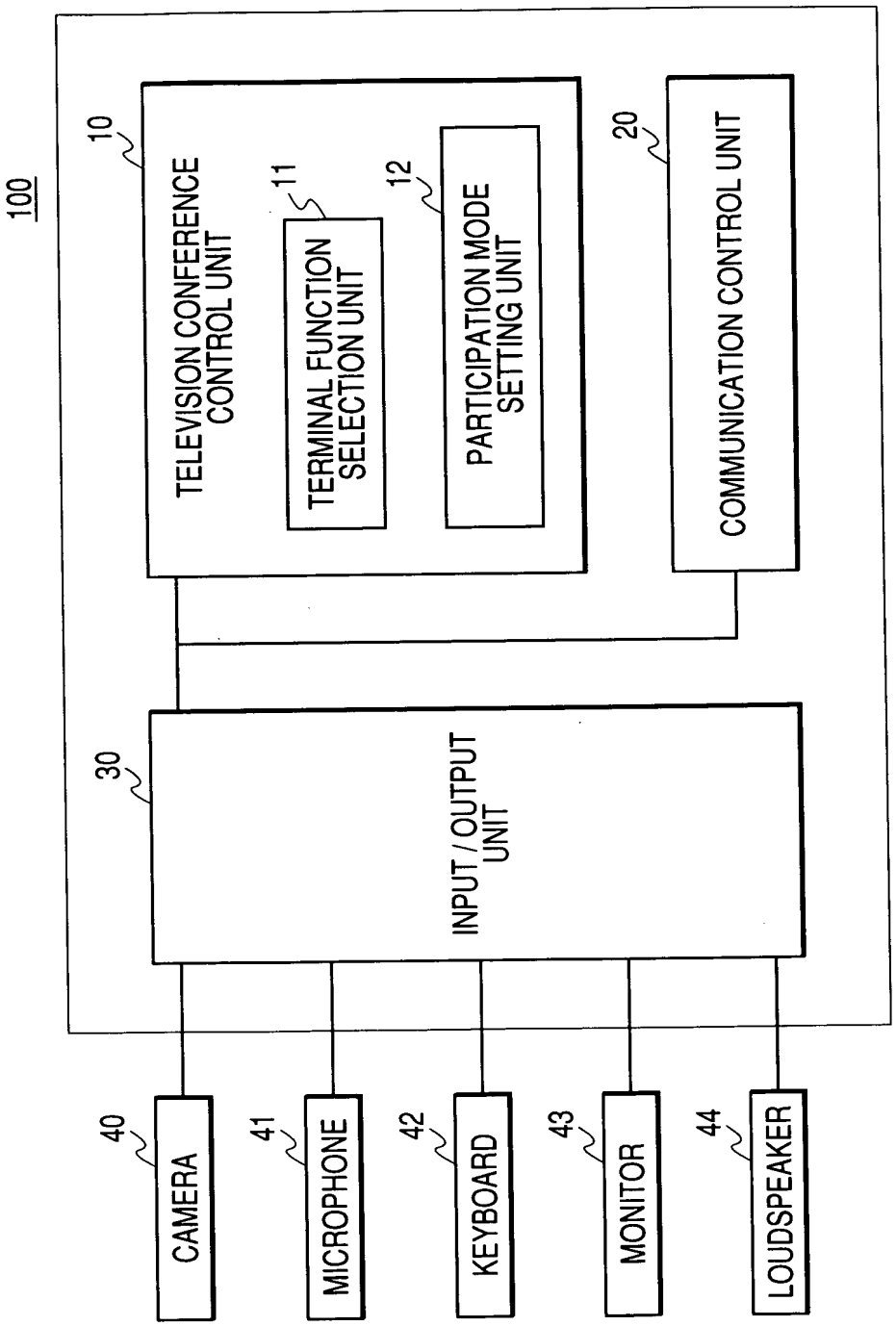

100
10
TELEVISION CONFERENCE CONTROL UNIT
11
TERMINAL FUNCTION SELECTION UNIT
12
PARTICIPATION MODE SETTING UNIT
20
COMMUNICATION CONTROL UNIT
30
INPUT / OUTPUT UNIT
40
CAMERA
41
MICROPHONE
42
KEYBOARD
43
MONITOR
44
LOUDSPEAKER

FIG. 4

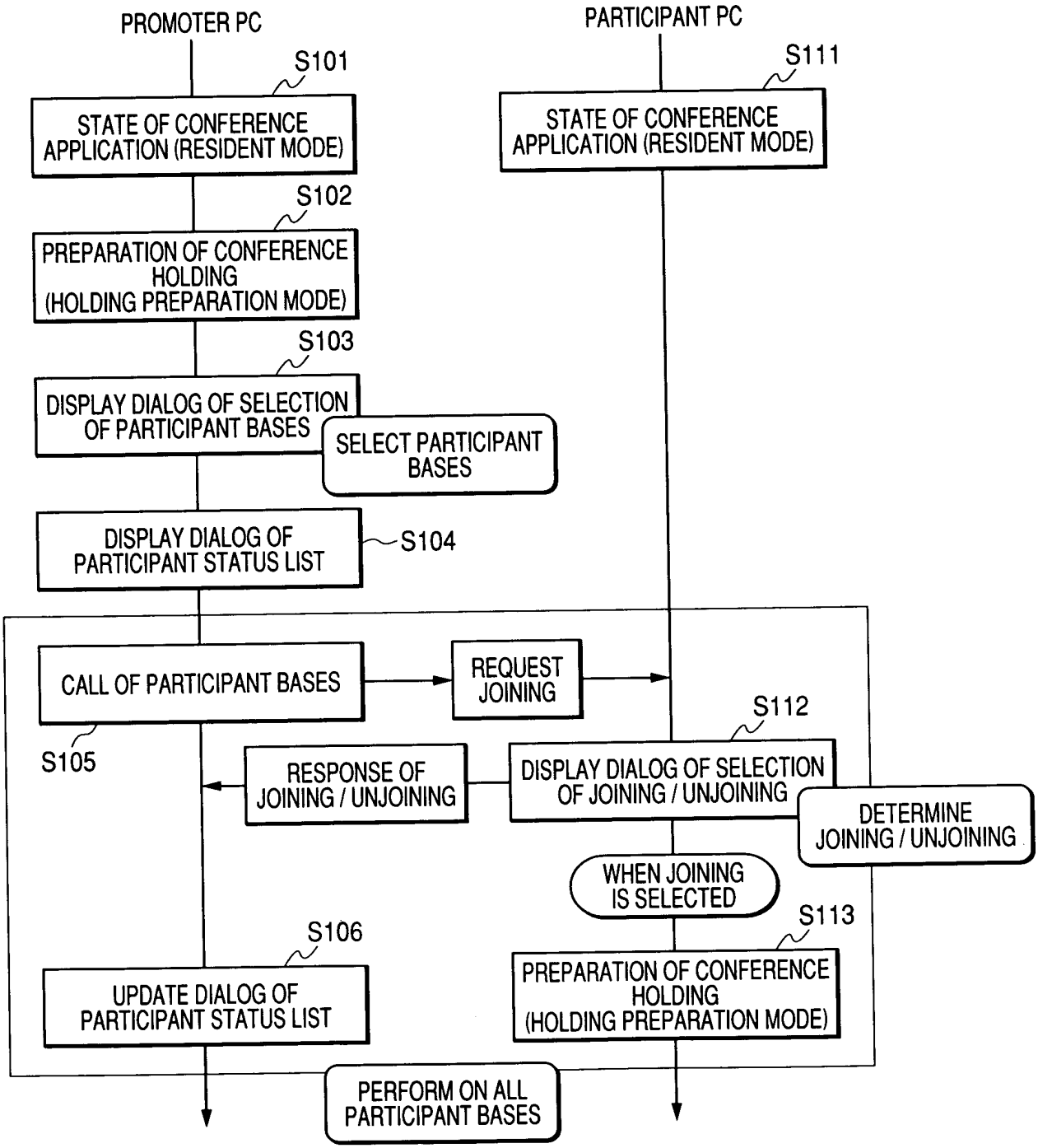

PROMOTER PC
PARTICIPANT PC
S101
STATE OF CONFERENCE APPLICATION (RESIDENT MODE)
S111
STATE OF CONFERENCE APPLICATION (RESIDENT MODE)
S102
PREPARATION OF CONFERENCE HOLDING (HOLDING PREPARATION MODE)
S103
DISPLAY DIALOG OF SELECTION OF PARTICIPANT BASES
SELECT PARTICIPANT BASES
DISPLAY DIALOG OF PARTICIPANT STATUS LIST
S104
CALL OF PARTICIPANT BASES
REQUEST JOINING
S105
S112
RESPONSE OF JOINING / UNJOINING
DISPLAY DIALOG OF SELECTION OF JOINING / UNJOINING
DETERMINE JOINING / UNJOINING
WHEN JOINING IS SELECTED
S106
S113
UPDATE DIALOG OF PARTICIPANT STATUS LIST
PREPARATION OF CONFERENCE HOLDING (HOLDING PREPARATION MODE)
PERFORM ON ALL PARTICIPANT BASES

FIG. 5

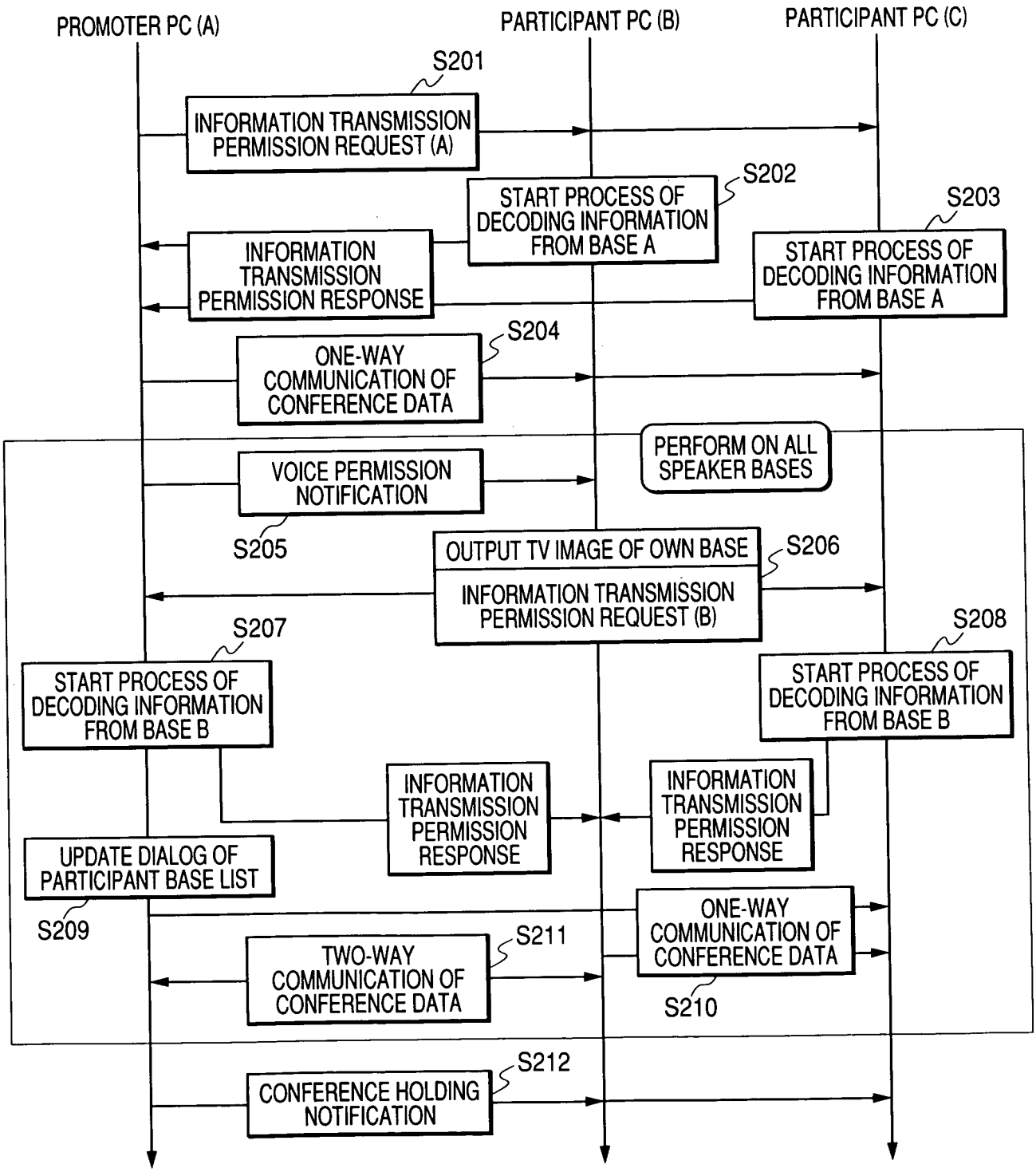
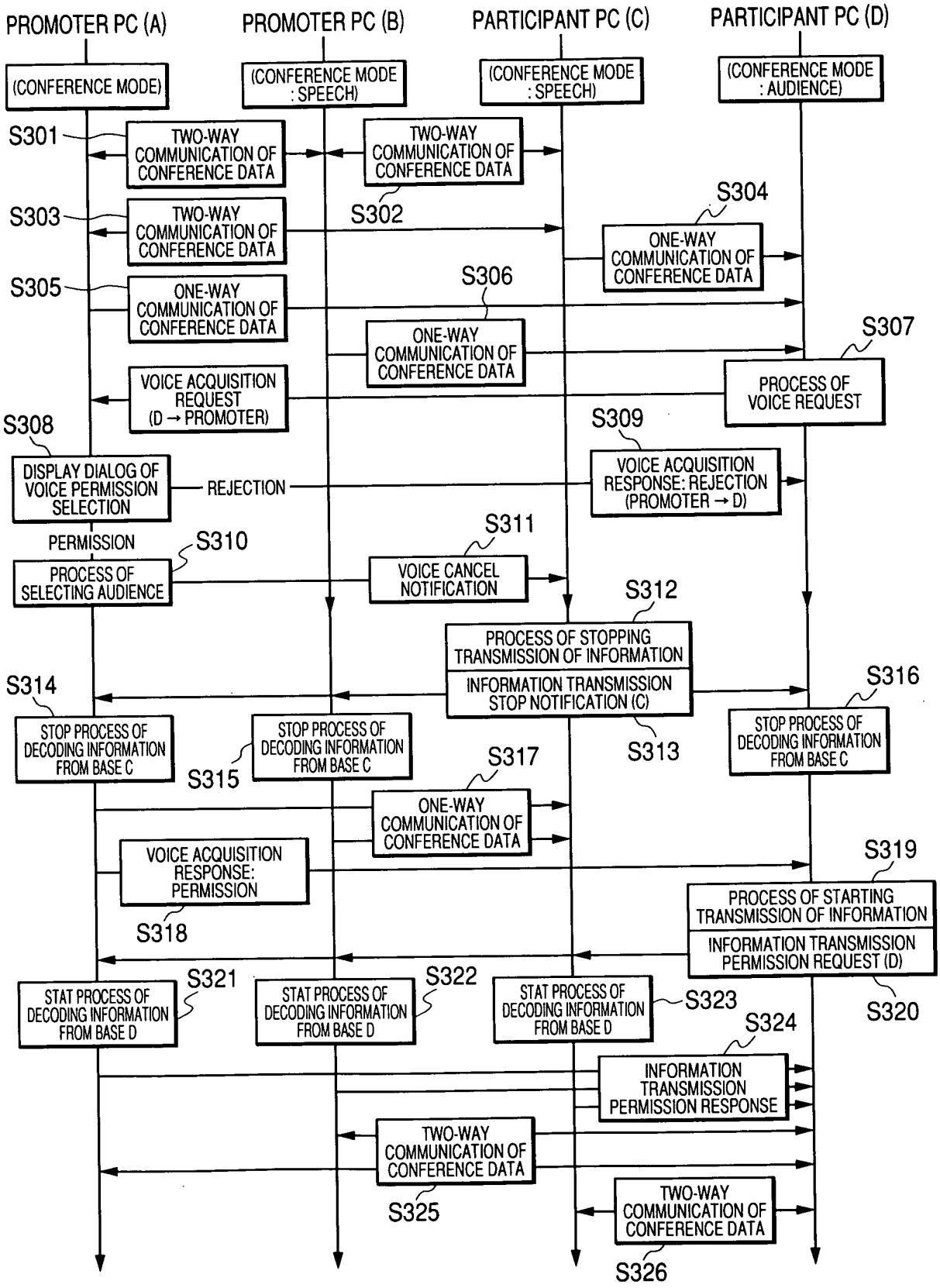

PROMOTER PC (A)
PARTICIPANT PC (B)
PARTICIPANT PC (C)
S201
INFORMATION TRANSMISSION PERMISSION REQUEST (A)
S202
START PROCESS OF DECODING INFORMATION FROM BASE A
S203
START PROCESS OF DECODING INFORMATION FROM BASE A
INFORMATION TRANSMISSION PERMISSION RESPONSE
S204
ONE-WAY COMMUNICATION OF CONFERENCE DATA
PERFORM ON ALL SPEAKER BASES
VOICE PERMISSION NOTIFICATION
S205
OUTPUT TV IMAGE OF OWN BASE
S206
INFORMATION TRANSMISSION PERMISSION REQUEST (B)
S207
START PROCESS OF DECODING INFORMATION FROM BASE B
S208
START PROCESS OF DECODING INFORMATION FROM BASE B
INFORMATION TRANSMISSION PERMISSION RESPONSE
INFORMATION TRANSMISSION PERMISSION RESPONSE
UPDATE DIALOG OF PARTICIPANT BASE LIST
S209
ONE-WAY COMMUNICATION OF CONFERENCE DATA
S210
S211
TWO-WAY COMMUNICATION OF CONFERENCE DATA
S212
CONFERENCE HOLDING NOTIFICATION

FIG. 6


PROMOTER PC (A)
PROMOTER PC (B)
PARTICIPANT PC (C)
PARTICIPANT PC (D)
(CONFERENCE MODE)
(CONFERENCE MODE : SPEECH)
(CONFERENCE MODE : SPEECH)
(CONFERENCE MODE : AUDIENCE)
S301
TWO-WAY COMMUNICATION OF CONFERENCE DATA
TWO-WAY COMMUNICATION OF CONFERENCE DATA
S302
S303
TWO-WAY COMMUNICATION OF CONFERENCE DATA
S304
ONE-WAY COMMUNICATION OF CONFERENCE DATA
S305
ONE-WAY COMMUNICATION OF CONFERENCE DATA
S306
ONE-WAY COMMUNICATION OF CONFERENCE DATA
S307
PROCESS OF VOICE REQUEST
VOICE ACQUISITION REQUEST (D → PROMOTER)
S308
DISPLAY DIALOG OF VOICE PERMISSION SELECTION
REJECTION
S309
VOICE ACQUISITION RESPONSE: REJECTION (PROMOTER → D)
PERMISSION
S310
PROCESS OF SELECTING AUDIENCE
S311
VOICE CANCEL NOTIFICATION
S312
PROCESS OF STOPPING TRANSMISSION OF INFORMATION
INFORMATION TRANSMISSION STOP NOTIFICATION (C)
S313
S314
STOP PROCESS OF DECODING INFORMATION FROM BASE C
S315
STOP PROCESS OF DECODING INFORMATION FROM BASE C
S316
STOP PROCESS OF DECODING INFORMATION FROM BASE C
S317
ONE-WAY COMMUNICATION OF CONFERENCE DATA
VOICE ACQUISITION RESPONSE: PERMISSION
S318
S319
PROCESS OF STARTING TRANSMISSION OF INFORMATION
INFORMATION TRANSMISSION PERMISSION REQUEST (D)
S320
S321
STAT PROCESS OF DECODING INFORMATION FROM BASE D
S322
STAT PROCESS OF DECODING INFORMATION FROM BASE D
S323
STAT PROCESS OF DECODING INFORMATION FROM BASE D
S324
INFORMATION TRANSMISSION PERMISSION RESPONSE
TWO-WAY COMMUNICATION OF CONFERENCE DATA
S325
TWO-WAY COMMUNICATION OF CONFERENCE DATA
S326

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TELEVISION CONFERENCE SYSTEM, TERMINAL FOR THE SYSTEM, CONNECTION CONTROL METHOD, AND CONNECTION.....
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7 of 11

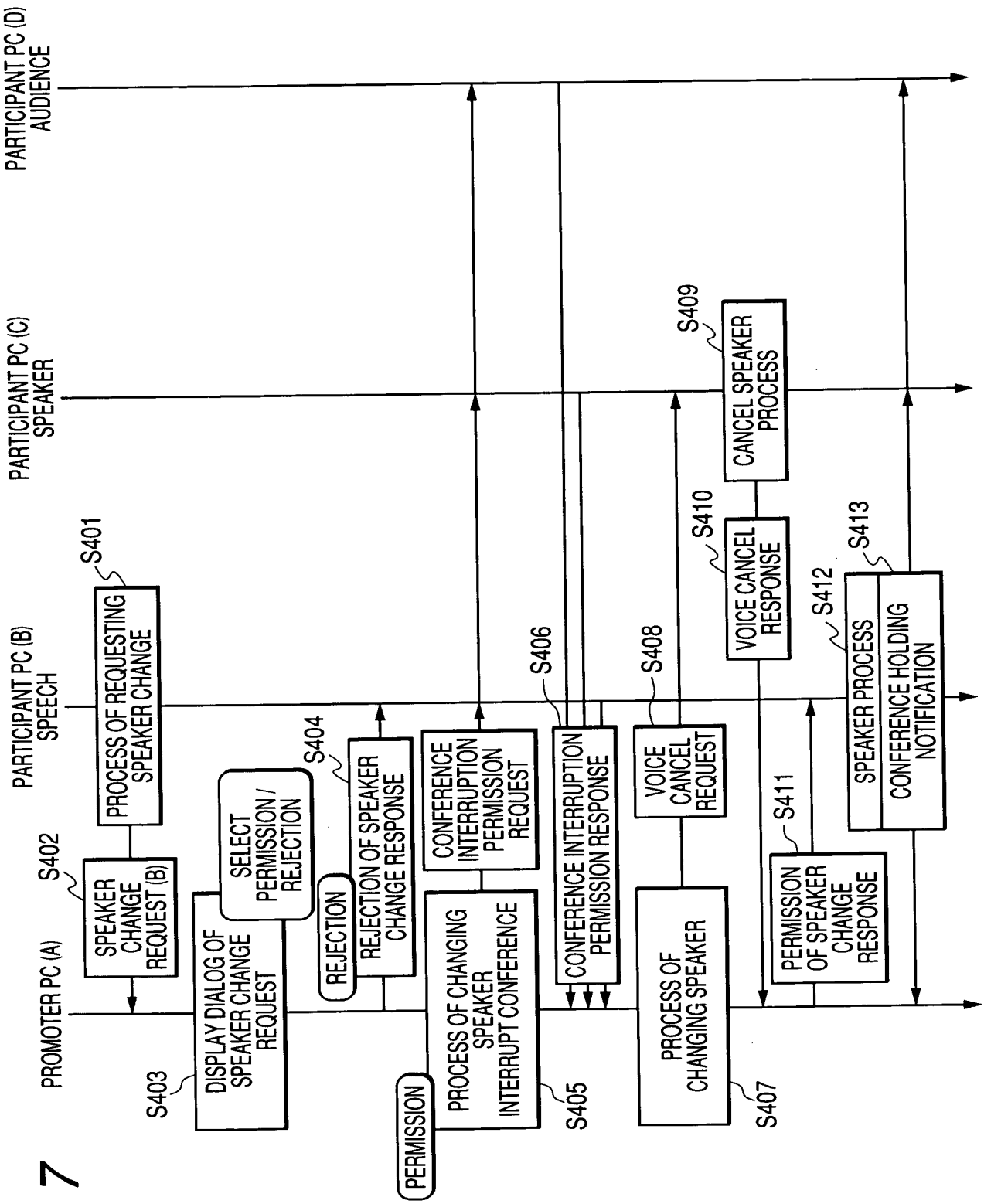


FIG. 7

FIG. 8

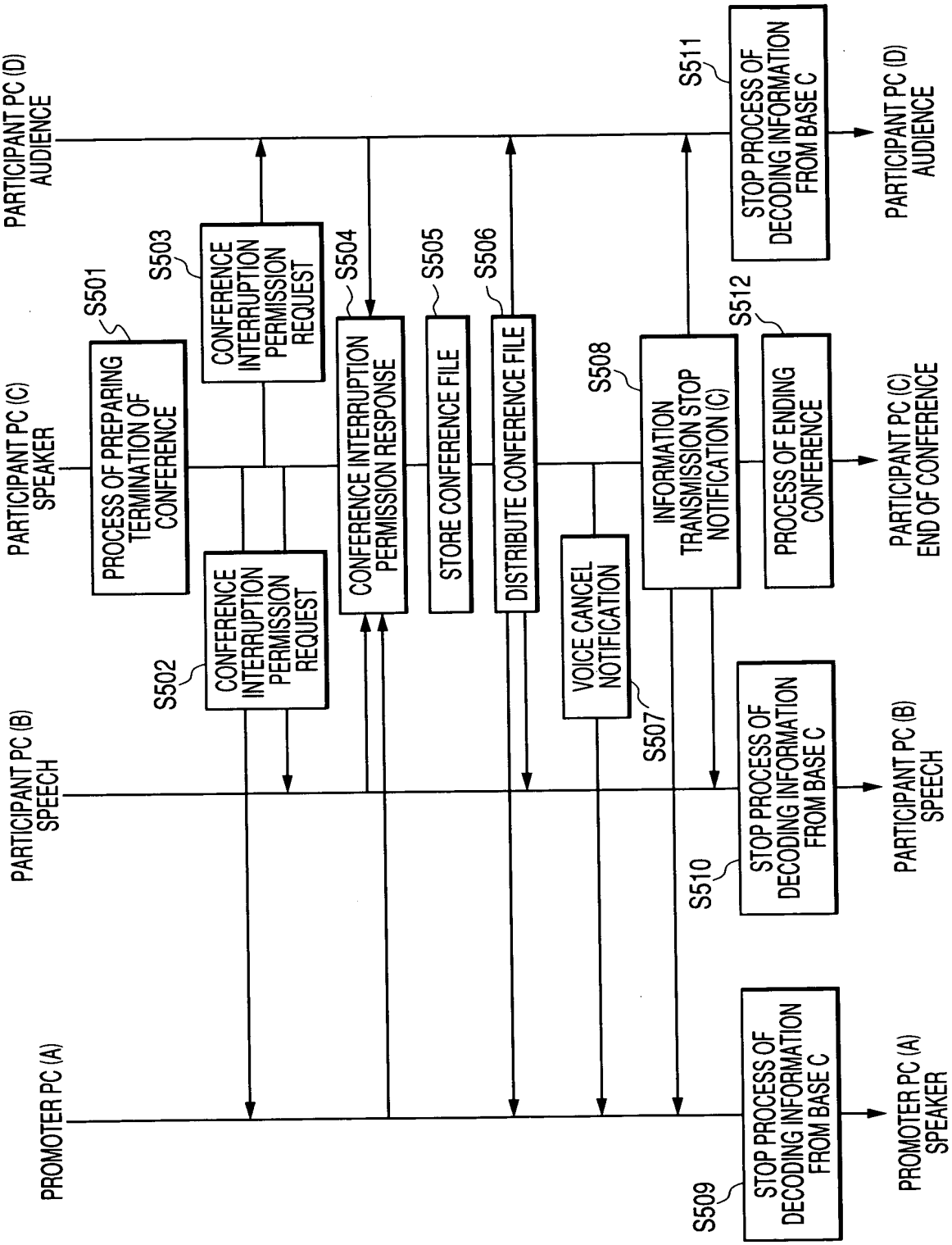

PARTICIPANT PC (D) AUDIENCE
PARTICIPANT PC (C) SPEAKER
PARTICIPANT PC (B) SPEECH
PROMOTER PC (A)
S501
PROCESS OF PREPARING TERMINATION OF CONFERENCE
S502
CONFERENCE INTERRUPTION PERMISSION REQUEST
S503
CONFERENCE INTERRUPTION PERMISSION REQUEST
S504
CONFERENCE INTERRUPTION PERMISSION RESPONSE
S505
STORE CONFERENCE FILE
S506
DISTRIBUTE CONFERENCE FILE
S507
VOICE CANCEL NOTIFICATION
S508
INFORMATION TRANSMISSION STOP NOTIFICATION (C)
S509
STOP PROCESS OF DECODING INFORMATION FROM BASE C
S510
STOP PROCESS OF DECODING INFORMATION FROM BASE C
S511
STOP PROCESS OF DECODING INFORMATION FROM BASE C
S512
PROCESS OF ENDING CONFERENCE
PARTICIPANT PC (D) AUDIENCE
PARTICIPANT PC (C) END OF CONFERENCE
PARTICIPANT PC (B) SPEECH
PROMOTER PC (A) SPEAKER

FIG. 9

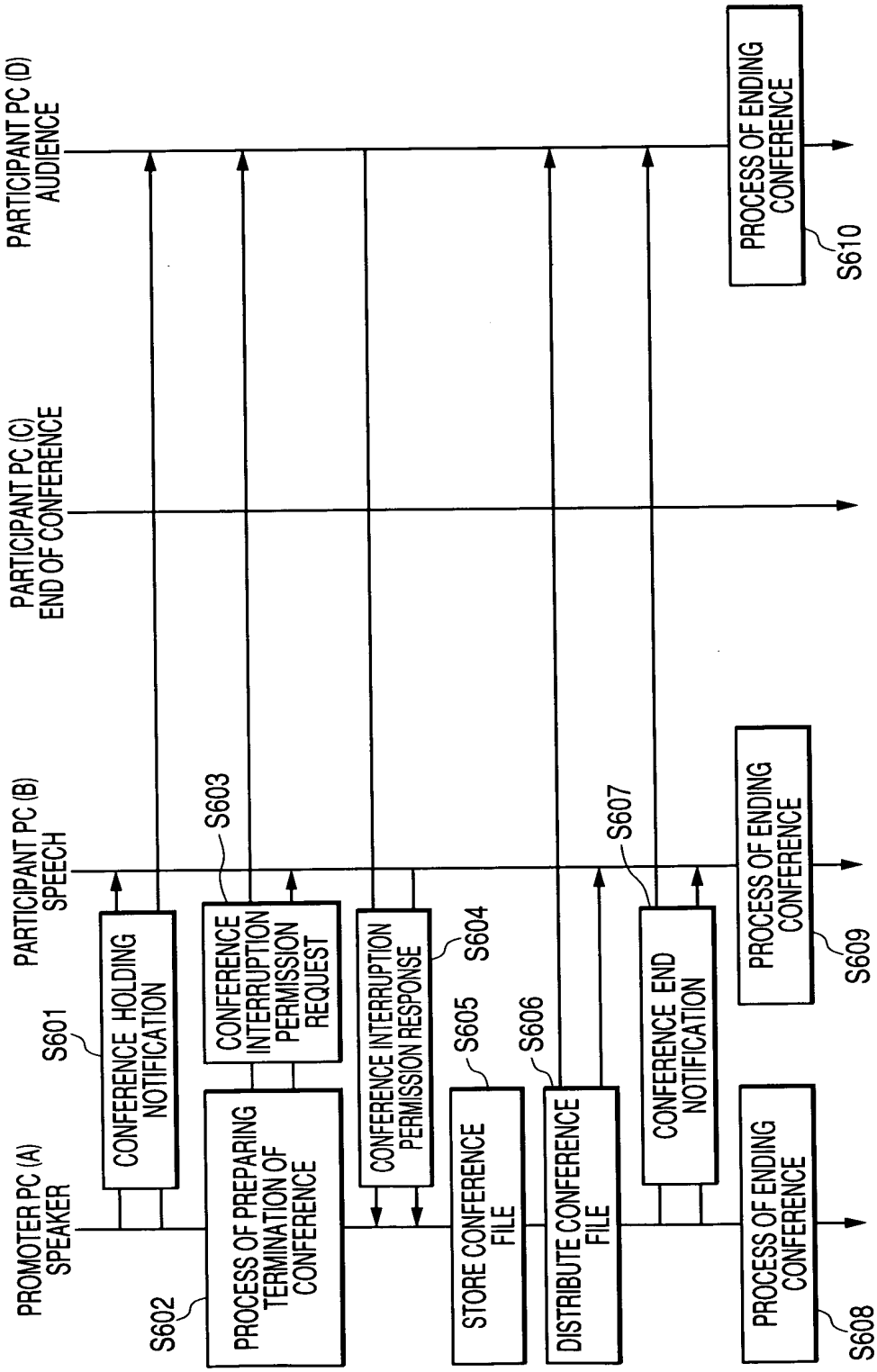

PARTICIPANT PC (D)
AUDIENCE
PARTICIPANT PC (C)
END OF CONFERENCE
PARTICIPANT PC (B)
SPEECH
PROMOTER PC (A)
SPEAKER
S601
CONFERENCE HOLDING NOTIFICATION
S602
PROCESS OF PREPARING TERMINATION OF CONFERENCE
S603
CONFERENCE INTERRUPTION PERMISSION REQUEST
S604
CONFERENCE INTERRUPTION PERMISSION RESPONSE
S605
STORE CONFERENCE FILE
S606
DISTRIBUTE CONFERENCE FILE
S607
CONFERENCE END NOTIFICATION
S608
PROCESS OF ENDING CONFERENCE
S609
PROCESS OF ENDING CONFERENCE
S610
PROCESS OF ENDING CONFERENCE

FIG. 10

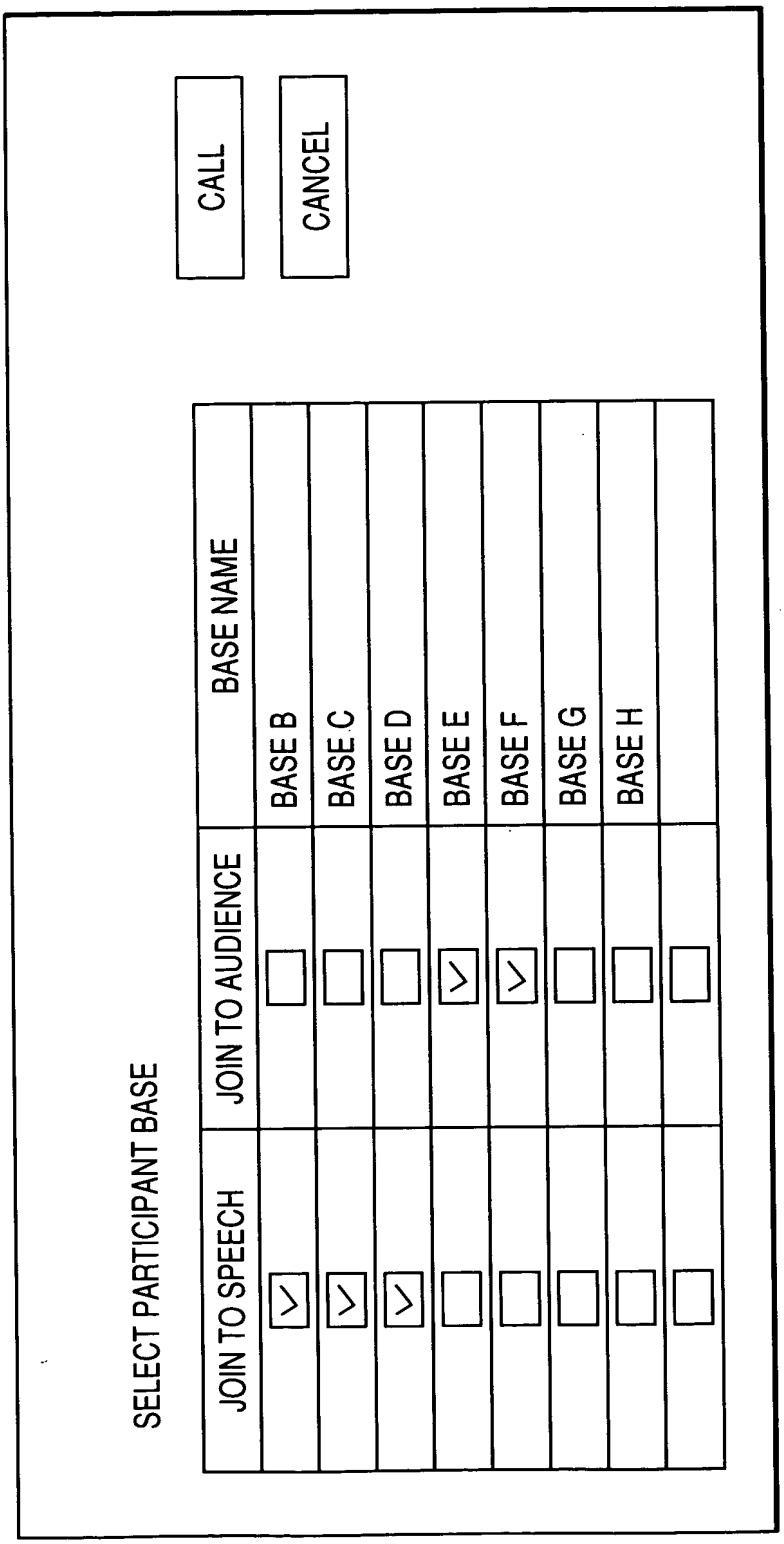
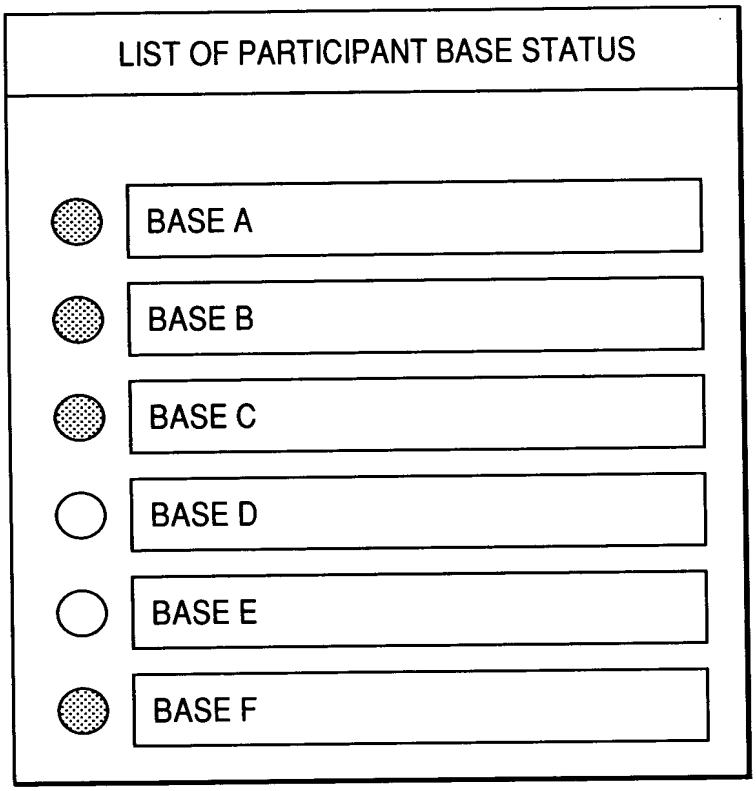

SELECT PARTICIPANT BASE
JOIN TO SPEECH
JOIN TO AUDIENCE
BASE NAME
BASE B
BASE C
BASE D
BASE E
BASE F
BASE G
BASE H
CALL
CANCEL

FIG. 11


LIST OF PARTICIPANT BASE STATUS
BASE A
BASE B
BASE C
BASE D
BASE E
BASE F